

Customer No. 25280

Case No. 2130

Amendments to the Claims

Claims 1-28 (Canceled)

29. (Currently amended) A treated substrate comprising  
a finish comprising a) compounds selected from the group consisting of metal particle-containing compounds, metal ion-containing compounds, metal-ion generating compounds, and any combinations thereof, and b) at least one binder material, wherein said binder material, ~~after processing and application to said substrate, is not readily water soluble, is not susceptible to attack by a standard laundering additive selected from the group consisting of detergents, solvents, bleaches, or mixtures thereof, and is not susceptible to degradation due to exposure to high temperatures associated with standard laundry drying temperatures~~ is selected from the group consisting of melamine-formaldehyde resins, acrylic resins, permanent press resins, polyvinyl chloride/vinyl copolymers, ethoxylated polyester, and mixtures thereof;

a substrate selected from the group consisting of a yarn, a fabric comprised of individual fibers, and a film;

wherein said finish is adhered to at least one portion of the surface of said substrate;

wherein said at least one portion of said treated substrate retains at least about 50% of said finish after 10 washes as performed in accordance with the wash procedure of AATCC Test Method 130-1981;

wherein said treated substrate is electrically non-conductive;

wherein if said metal is zinc, then at least one hydrophilic binder compound and at least one hydrophobic binder compound are present adhering said zinc compound to said substrate; and

wherein said finish exhibits antimicrobial properties.

30. (Previously Presented) The treated substrate of Claim 29 wherein said substrate is an individual yarn.

31. (Previously Presented) The treated substrate of Claim 29 wherein said substrate is a textile fabric.

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32. (Previously Presented) The treated substrate of Claim 29 wherein said substrate is a film.
33. (Previously Presented) The treated substrate of Claim 29 wherein said finish comprises metal particles.
34. (Previously Presented) The treated substrate of Claim 29 wherein said finish comprises metal-ion generating compounds.
35. (Previously Presented) The treated substrate of Claim 33 wherein said finish comprises a metal selected from one of the transition metals.
36. (Previously Presented) The treated substrate of Claim 35 wherein said transition metal is selected from the group consisting of silver and zinc.
37. (Previously Presented) The treated substrate of Claim 34 wherein said finish comprises a metal selected from one of the transition metals.
38. (Previously Presented) The treated substrate of Claim 37 wherein said transition metal is selected from the group consisting of silver and zinc.
39. (Currently Amended) A treated substrate comprising  
a non-electrically conductive treatment comprising a) metal-containing compounds selected from the group consisting of metal particle-containing compounds, metal ion-containing compounds, and any combinations thereof, and b) at least one binder material, wherein said binder material, after processing and application to said substrate, is not readily water soluble, is not susceptible to attack by a standard laundering additive selected from the group consisting of detergents, solvents, bleaches, or mixtures thereof, and is not susceptible to degradation due to exposure to high temperatures associated with standard laundry drying temperatures is selected from the group consisting of melamine-formaldehyde resins, acrylic resins, permanent press resins, polyvinyl chloride/vinyl copolymers, ethoxylated polyester, and mixtures thereof;  
a substrate selected from the group consisting of a yarn, a fabric comprised of individual yarns, and a film;

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wherein said non-electrically conductive treatment is adhered to at least a portion of the surface of said substrate; and

wherein said at least a portion of the surface of said treated substrate exhibits a) a log kill rate for *Staphylococcus aureus* of at least 1.5 and b) a log kill rate for *Klebsiella pneumoniae* of at least 1.5, both as tested in accordance with AATCC Test Method 100-1993 for 24 hour exposure, and c) retention of at least about 50% of said finish treatment, all after at least 10 washes, said washes performed in accordance with the wash procedure as part of AATCC Test Method 130-1981; and

wherein if said metal is zinc, then at least one hydrophilic binder compound and at least one hydrophobic binder compound are present adhering said zinc compound to said substrate.

40. (Previously Presented) The treated substrate of Claim 39 wherein said substrate is an individual yarn.

41. (Previously Presented) The treated substrate of Claim 39 wherein said substrate is a textile fabric.

42. (Previously Presented) The treated substrate of Claim 39 wherein said substrate is a film.

43. (Previously Presented) The treated substrate of Claim 39 wherein said finish comprises metal particles.

44. (Previously Presented) The treated substrate of Claim 39 wherein said finish comprises metal-ion generating compounds.

45. (Previously Presented) The treated substrate of Claim 43 wherein said finish comprises a metal selected from one of the transition metals.

46. (Previously Presented) The treated substrate of Claim 45 wherein said transition metal is selected from the group consisting of silver and zinc.

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47. (Previously Presented) The treated substrate of Claim 44 wherein said finish comprises a metal selected from one of the transition metals.
48. (Previously Presented) The treated substrate of Claim 47 wherein said transition metal is selected from the group consisting of silver and zinc.